

ABSTRACT

5 A heat-resistant coated member comprises a substrate
composed of a material selected from among molybdenum,
tantalum, tungsten, zirconium, aluminum, titanium, carbon,
and alloys, oxide ceramics, non-oxide ceramics and carbide
materials thereof, which is covered with a layer composed
10 primarily of a rare earth-containing oxide. In addition to
heat resistance, the coated member has good corrosion
resistance and non-reactivity, making it highly suitable as
a part for sintering or heat-treating metals and ceramics in
a vacuum, an inert atmosphere or a reducing atmosphere.

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